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MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. 3090 Press/Mis.

116-17

Dated 7 12 1871.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department,
7th December 1871.

No. 116. Read the following letter from the Executive Engineer on special duty, Madura District, to the Acting Chief Engineer for Irrigation, dated Madura, 9th November 1871, No. 265:—

I HAVE the honour to submit the annexed Report showing the progress made with the Perryaur investigations during the past month.

1 Diagram.
1 Table of Rainfall.

2. The contour survey of the country, in the neighbourhood of the Goodaloor Tavalum, has been steadily proceeded with; but the work on the left bank of the river has been necessarily slow and costly, in consequence of the greater portion of the country there being covered with dense and almost impenetrable forest.

3. The register of the rainfall at the Perryaur camps and the diagram showing the discharge of the river, etc., accompany this report.

PERRYAUR PROJECT.

Table of Rainfall and Discharge of Perryaur during the month of October 1871.

Dates.	Rainfall at Perryaur Camp.	Rainfall at Yellominchin Camp.	Hours.	Water level in feet.	Discharge. Cubic feet per second.	Discharge. 1,000 Cubic yards per day.
	INCHES.	INCHES.				
1st October ...	0·10	0·30	6 A. M. 6 P. M.	0·25 0·33	389 402	1,266
2nd ,, ...	0·08	0·10	6 A. M. 6 P. M.	0·24 0·22	382 377	1,214
3rd ,, ...	0·05	0·03	6 A. M. 6 P. M.	0·18 0·16	368 363	1,170
4th ,, ...	0·00	0·00	6 A. M. 6 P. M.	0·30 0·30	396 396	1,267
5th ,, ...	0·00	0·00	6 A. M. 6 P. M.	0·20 0·18	372 368	1,184
6th ,, ...	0·00	0·00	6 A. M. 6 P. M.	0·13 0·07	357 314	1,074
7th ,, ...	0·00	0·00	6 A. M. 6 P. M.	0·00 —0·10	328 308	1,018
8th ,, ...	0·00	0·00	6 A. M. 6 P. M.	—0·12 —0·16	304 296	960
9th ,, ...	0·50	0·25	6 A. M. 6 P. M.	—0·20 1·05	289 649	1,501
10th ,, ...	0·00	0·00	6 A. M. 6 P. M.	0·21 0·20	374 372	1,194
11th ,, ...	0·00	0·52	6 A. M. 6 P. M.	0·12 0·00	353 328	1,090
12th ,, ...	1·31	0·00	6 A. M. 6 P. M. 12 Mid.	—0·13 3·66 2·00	302 2,160 1,139	3,548
13th ,, ...	0·00	0·00	6 A. M. 12 Noon. 6 P. M. 12 Mid.	3·45 2·32 2·75 2·32	2,009 1,349 1,602 1,349	4,962
14th ,, ...	0·40	0·20	6 A. M. 6 P. M.	1·70 1·12	951 677	2,605
15th ,, ...	0·07	0·30	6 A. M. 6 P. M.	3·30 1·52	1,915 855	4,432

Table of Rainfall and Discharge of Perryaur during the month of Oct. 1871.—(Conld.)

Dates.	Rainfall at		Hours.	Water level in feet.	Discharge.	
	Perryaur Camp.	Yellominchin Camp.			Cubic feet per second.	1,000 Cubic yards per day.
	Inches.	Inches.				
16th October ..	0·24	0·32	6 A. M. 6 P. M. 12 Mid.	1·33 2·65 4·01	765 1,541 2,456	4,092
17th „ ...	0·13	0·45	6 A. M. 6 P. M.	3·20 3·38	1,853 1,966	6,110
18th „ ...	0·15	0·32	6 A. M. 6 P. M.	3·45 2·10	2,009 1,208	5,147
19th „ ...	0·22	0·10	6 A. M. 6 P. M.	2·75 2·08	1,602 1,194	4,473
20th „ ...	0·04	0·02	6 A. M. 6 P. M.	3·20 2·11	1,853 1,215	4,909
21st „ ...	0·64	0·72	6 A. M. 6 P. M.	1·70 2·09	951 1,201	3,443
22nd „ ...	0·00	0·00	6 A. M. 6 P. M.	3·20 2·08	1,853 1,194	4,875
23rd „ ...	0·00	0·17	6 A. M. 6 P. M.	2·25 1·60	1,307 893	3,520
24th „ ...	0·00	0·00	6 A. M. 6 P. M.	1·50 1·28	845 742	2,539
25th „ ...	0·00	0·00	6 A. M. 6 P. M.	1·05 0·95	649 609	2,013
26th „ ...	0 02	0·17	6 A. M. 6 P. M.	0·75 0·75	536 536	1,715
27th „ ...	0·00	0·00	6 A. M. 6 P. M.	0·62 0·55	490 467	1,531
28th „ ...	0·00	0·00	6 A. M. 6 P. M.	0·45 0·42	435 426	1,378
29th „ ...	0·00	0·00	6 A. M. 6 P. M.	0·35 0·24	408 386	1,270
30th „ ...	0·00	0·00	6 A. M. 6 P. M.	0·18 0·18	368 368	1,178
31st „ ...	0 00	0 00	6 A. M. 6 P. M.	0·12 0·05	354 339	1,109
Total...	4·35	3·97	......	......	......	77,787

Depth run off from Catchment Basin of 250 square miles = 3·61 inches.

Mean Discharge ... ... { 2,509,258 Cubic yards per day.
104,552 „ „ per hour.
784 „ feet per second.

	Cubic yards.
Discharge of Perryaur in October 1871	77,787,000
Do. of do. in October 1869	70,829,000
Difference—Excess in October 1871...	6,958,000

Madura,
9*th November* 1871.

(Signed) R. SMITH,
Executive Engineer on special duty, Madura District.

3A

Proceedings of the Madras Government, Public Works Department,
7th December **1871.**

No. 117. ORDER THEREON, 7th December 1871, No. 3,090.

IRRIGATION, No. 3.

ORDERED to be recorded.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the Chief Engineer for Irrigation, with Diagram.
,, R. Smith, Esq.

...ro a Letter
...ive Engineer
Madura Distt
November 1871
No 265

...Actg Chief Engr
for Irrigation
Madras.

...P.W. 5466/71

5A 3

Perryaur Project

Table of Rainfall and discharge of Perryaur during the month of October 1871.

Dates	Rainfall at Perryaur Camp (Inches)	Rainfall at Yellominchi Camp (Inches)	Hours	Water level in feet	Discharge: Cubic feet per Second	Discharge: 1000 Cubic yards per day
October 1	0.10	0.30	6 a.m. 6 p.m.	0.25 0.33	389 402	1266
" 2	0.08	0.10	6 a.m. 6 p.m.	0.24 0.22	382 377	1214
" 3	0.05	0.03	6 a.m. 6 p.m.	0.18 0.16	368 363	1170
" 4	0.00	0.00	6 a.m. 6 p.m.	0.30 0.30	396 396	1267
" 5	0.00	0.00	6 a.m. 6 p.m.	0.20 0.18	372 368	1184
" 6	0.00	0.00	6 a.m. 6 p.m.	0.13 0.07	357 314	1074
" 7	0.00	0.00	6 a.m. 6 p.m.	0.00 -0.10	328 308	1018
" 8	0.00	0.00	6 a.m. 6 p.m.	-0.12 -0.16	304 296	960
" 9	0.50	0.25	6 a.m. 6 p.m.	-0.20 1.05	289 649	1501
" 10	0.00	0.00	6 a.m. 6 p.m.	0.21 0.20	374 372	1194
" 11	0.00	0.52	6 a.m. 6 p.m.	0.12 0.00	353 328	1090
" 12	1.31	0.00	6 a.m. 6 p.m. 12 Mid.	-0.13 3.66 2.00	302 2160 1139	3548
" 13	0.00	0.00	6 a.m. 12 Noon 6 p.m. 12 Mid.	3.45 2.32 2.75 2.32	2009 1349 1602 1349	4962
" 14	0.40	0.20	6 a.m. 6 p.m.	1.70 1.42	951 677	2605
" 15	0.07	0.30	6 a.m. 6 p.m.	3.30 1.52	1645 855	4432
" 16	0.24	0.32	6 a.m. 6 p.m. 12 Mid.	1.33 2.65 4.01	765 1541 2456	4092
17th	0.13	0.45	6 a.m. 6 p.m.	3.20 3.38	1853 1966	6110
18	0.15	0.32	6 a.m. 6 p.m.	3.45 2.10	2009 1208	5147
19	0.22	0.10	6 a.m. 6 p.m.	2.75 2.08	1602 1194	4473
20	0.04	0.02	6 a.m. 6 p.m.	3.20 2.11	1853 1215	4909
21	0.64	0.72	6 a.m. 6 p.m.	1.70 2.09	951 1201	3443
22	0.00	0.00	6 a.m. 6 p.m.	3.20 2.08	1853 1194	4875
23	0.00	0.17	6 a.m. 6 p.m.	2.25 1.60	1307 893	3520
24	0.00	0.00	6 a.m. 6 p.m.	1.50 1.28	845 742	2539
25	0.00	0.00	6 a.m. 6 p.m.	1.05 0.95	649 609	2013
26	0.02	0.17	6 a.m. 6 p.m.	0.75 0.75	536 536	1715
27	0.00	0.00	6 a.m. 6 p.m.	0.62 0.55	490 467	1531
28	0.00	0.00	6 a.m. 6 p.m.	0.45 0.42	435 426	1378
29	0.00	0.00	6 a.m. 6 p.m.	0.35 0.24	408 386	1270
30th	0.00	0.00	6 a.m. 6 p.m.	0.18 0.18	368 368	1178
31st	0.00	0.00	6 a.m. 6 p.m.	0.12 0.05	354 339	1109
Total	4.35	3.97				77787

Depth run off from Catchment basin of 250 Square miles = 3.61 inches.

Mean Discharge — { 2,509,258 Cubic yards per day
104.552 " " per hour
784 " feet per Second.

		Cubic yards.
Discharge of Perryaur in October 1871	—	77,787,000
— D° — of — D° — in October 1869	—	70,829,000
Difference — Excess in October 1871	}	6,958,000

Compared
"

Ex. Engr's Office
Madura 9th November 1871 }

R. Smith
Executive Engineer
Dr. Ex. duty. Madura Distt.

No. 265

Special Executive Engineer's Office.
Madura 9th November 1871

From,

The Executive Engineer
On Special duty
Madura District

To,

The Acting Chief Engineer
for Irrigation
Fort Saint George

Sir,

I have the honor to submit the annexed report showing the progress made, with the Perryaur investigations, during the past month. —

...ssmes?
...iagram
...ble of
...ainfall

2. The Contour survey of the Country, in the neighbourhood of the Poodaloor Yavalum, has been steadily proceeded with; but the work, on the left bank of the river, has been necessarily slow, and Costly, in Consequence of the greater portion of the

Country

Country, there, being Covered with dense, and almost impenetrable, forest. —

3. The Register of the rain-fall, at the Perryaur Camps, and the diagrams, showing the discharge of the River, etc, accompany this report. —

I have the honor to be

Sir,

Your Most Obedient Servant

J Smith

Executive Engineer
On Special duty
Madura Dist.

P. W. 1871 Depart.
No. 265
From C.s. No. 730 / 546 b.
The Executive Engineer
On special duty
Madura Dist.

To
The Actg. Chief Engr.
for Irrigation
Madras.

Dated 9th }
Despd 9th } November 1871
Received 13th }
1-E. Rectd
Recd: 16th
Ecn: 2.

Submits the report showing the progress made with the Periyaur investigation during the past Month.

No. 3090 of 7 Decr/71
With an order

3090
Ordered to be recorded.
J.
N. A. D.

To Chrgs for Irrigation with Despams
R. Smith Esqr.

Despd. 8/12/71

6 22d Novr/71 R. 27th

5 R/s. 5466

Govt. of [1871] Madras.

PUBLIC WORKS.

To The Chief Engineer for Irrigation

Dated.

Recd. Encl. 1

G. O., 7 Decr 1871, No. 30 ½

Nos. 116 & 117

Periyaur Project. &c.

Engineer's report of the progress made with the investigations of the Periyaur Project during Octr 71. recorded.